

GRANT DAVID MEADORS

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EDUCATION

<i>University of Michigan, Ann Arbor</i>	PhD (& MS) in Physics	2014 Dec (& 2009 Dec)
<i>Reed College & visiting Trinity College Dublin</i>	BA in Physics	2008 May
<i>Portland Community College</i>	AS w/ Highest Honors & $\Phi\Theta K$	2004 Mar

RESEARCH & PROFESSIONAL EXPERIENCE

<i>Los Alamos National Lab</i>	Postdoctoral Research Associate	2019 Feb / present
<i>Monash University</i>	Postdoc, ARC Centre of Excellence (OzGrav)	2018 Jan / 2019 Feb
<i>Max Planck (AEI Hannover)</i>	Postdoc, Astrophysical & Cosmological Relativity	2015 Jan / 2017 Dec
<i>University of Michigan</i>	Grad. Student Research Assistant, LIGO	2008 Aug / 2014 Dec

SCHOLARSHIPS & AWARDS

<i>Breakthrough Prize</i>	(to LVC) Special Prize in Fundamental Physics	2016 May
<i>Grav. Wave Int'l Committee</i>	GWIC & Braccini Thesis Hon. Mention	2015 Apr
<i>National Science Foundation</i>	Grad. Research Fellow. Program Hon. Mention	2010 Apr
<i>LIGO Academic Advisory Council</i>	LIGO Fellowship	2009 Oct

OTHER RESEARCH & PROFESSIONAL EXPERIENCE

<i>OzGrav (Committees)</i>	Equity & Diversity, Early Career Researcher	2018 May/2019 Feb
<i>LVC Allies</i>	Ally (& Chair from 2018 Mar)	2016 Dec/2019 Feb
<i>LIGO Magazine</i>	Assistant Editor	2014 Nov/2016 Jul
<i>Woodstock Elem. Science Outreach</i>	Electrical circuits & pathways (teaching)	2005 Oct/2005 Dec
$\Phi\Theta K$, <i>AEI Chap., Int'l Hon. Soc.</i>	PCC Sylvania Membership Dir., VP Fellowship	2003 Aug/2004 Aug

<i>LIGO Caltech SURF REU</i>	Gravitational wave stochastic background	2007 Jun/2007 Aug
<i>Columbia U., Nevis Labs REU</i>	Electron bubble neutrino/dark matter detector	2006 May/2006 Aug
<i>LIGO Hanford Obs. SURF REU</i>	4K LIGO Hanford Observatory recycling cavity	2005 Jun/2005 Aug
<i>Reed Research Reactor</i>	Assistant & (Senior) Reactor Operator	2004 Sep/2008 May

OTHER SCHOLARSHIPS & AWARDS

<i>Reed College Fellowships & Awards</i>	Churchill, Marshall & Rhodes Nominee	2007 Fall
<i>Barry M. Goldwater Schol. Found.</i>	Goldwater Scholarship (& Hon. Mention)	2007 (& 2006)
<i>Reed College Math. & Nat. Sci. Div.</i>	Academic Commendation	2006 May
<i>Reed College Physics Department</i>	Qualifying Exam. Special Commendation	2006 Feb
<i>Reed College Office of the President</i>	Commendation for Excellence	2006 & 2005
<i>Independent Order of Foresters</i>	Foresters' Scholarship	2005 & 2004
<i>Portland Community College</i>	Juan Young Scholarship	2004 & 2003
$\Phi\Theta K$, <i>AEI Chap., Int'l. Hon. Soc.</i>	Honors Scholar & Cert. of Excellence (& Officer)	2004 (& 2003)

TEACHING EXPERIENCE

<i>International Max Planck Research School</i>	(3 lectures) Linearized gravity, action on detectors, sources of gravitational waves	2017 Jun
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SELECTED PEER-REVIEWED PAPERS

- (submitted) E.O. Romero-Severson, N. Hengartner, **G.D. Meadors**, R. Ke
([medRxiv](#)) *Decline in global COVID-19 transmission*
-
- Space Weather* **G.D. Meadors**, S. Jones, K. Hickmann, C. Arge, H. Godinez-Vasquez, C. Henney
[18 \(2020\) 5](#) *Data assimilative optimization of WSA source surface
and interface radii using particle filtering*
- Astrophys J S* G. Ashton et al. (incl. **G.D. Meadors**)
[241 \(2019\) 27](#) *Bilby: a user-friendly Bayesian inference library
for gravitational-wave astronomy*
- Phys Rev D* J. Westerweck et al. (incl. **G.D. Meadors**)
[97 \(2018\) 124037](#) *Low significance of evidence for black holes echoes
in gravitational wave data*
- Phys Rev D* **G.D. Meadors**, B. Krishnan, M.A. Papa, J.T. Whelan, Y. Zhang
[97 \(2018\) 044017](#) *Resampling to accelerate cross-correlation searches for continuous
gravitational waves from binary systems*
- Phys Rev D* **G.D. Meadors**, E. Goetz, K. Riles, T. Creighton, F. Robinet
[95 \(2017\) 042005](#) *Searches for continuous gravitational waves from Scorpius X-1 and XTE J1751-305
in LIGO's sixth science run*
- Class Quant Grav* **G.D. Meadors**, E. Goetz, K. Riles
[33 \(2016\) 105017](#) *Tuning into Scorpius X-1: adapting a continuous gravitational-wave search
for a known binary system*
- Phys Rev D* C. Messenger et al. (incl. **G.D. Meadors**)
[92 \(2015\) 023006](#) *Gravitational waves from Sco X-1: a comparison of search methods
and prospects for detection with advanced detectors*
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SELECTED PEER-REVIEWED PAPERS (CONTINUED)

- Math Model Nat P* E.O. Romero-Severson, **G.D. Meadors**, E. Volz
[9 \(2014\) 2](#) *A generating function approach to HIV transmission
with dynamic contact rates*
- Class Quant Grav* **G.D. Meadors**, K. Kawabe, K. Riles
[31 \(2014\) 105014](#) *Increasing LIGO sensitivity by feedforward subtraction
of auxiliary length control noise*
- Class Quant Grav* S.S.Y. Chua et al. (incl. **G.D. Meadors**)
[31 \(2014\) 035017](#) *Impact of backscattered light in a squeezing-enhanced interferometric
gravitational-wave detector*
- Nature Photonics* Aasi et al., L. Barsotti corresponding (LIGO Scientific Collab. incl. **G.D. Meadors**)
[7 \(2013\) 613](#) *Enhancing the sensitivity of the LIGO gravitational wave detector by
using squeezed states of light*
- Optics Express* S. Dwyer et al. (incl. **G.D. Meadors**)
[21 \(2013\) 16](#) *Squeezed quadrature fluctuations in a gravitational wave detector
using squeezed light*
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OTHER PEER-REVIEWED PAPERS

<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
122 (2019) 061104	<i>Constraining the p-mode-g-mode tidal instability with GW170817</i>
<i>Astrophys J</i>	(Fermi, LSC & Virgo collaborations) Burns et al.
871 (2019) 90	<i>A Fermi gamma-ray burst monitor search for electromagnetic signals ...</i>
<i>Astrophys J</i>	(ANTARES, IceCube, LSC & Virgo collaborations) Albert et al.
870 (2019) 134	<i>Search for multimessenger sources of gravitational waves and ...</i>
<i>Phys Rev X</i>	(LSC & Virgo) Abbott et al.
9 (2019) 011001	<i>Properties of the binary neutron star merger GW170817</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
121 (2018) 231103	<i>Search for subsolar-mass ultracompact binaries in Advanced LIGO's ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
121 (2018) 161101	<i>GW170817: measurements of neutron star radii and the equation of state</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
120 (2018) 201102	<i>Search for tensor, vector, and scalar polarizations in the stochastic ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
97 (2018) 102003	<i>Full band all-sky search for periodic gravitational waves in the O1 LIGO data</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
97 (2018) 102002	<i>Constraints on cosmic strings using data from the first Advanced LIGO ...</i>
<i>Class Quant Grav</i>	(LSC & Virgo) Abbott et al.
35 (2018) 065009	<i>All-sky search for long-duration gravitational wave transients in the first ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
120 (2018) 091101	<i>GW170817: implications for the stochastic gravitational-wave background ...</i>
<i>Class Quant Grav</i>	(LSC & Virgo) Abbott et al.
35 (2018) 065010	<i>Effects of data quality vetoes on a search for compact binary coalescences in ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
120 (2018) 031104	<i>First search for nontensorial gravitational waves from known pulsars</i>

OTHER PEER-REVIEWED PAPERS (CONTINUED)

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|-----------------------------------|--------------------------------------------------------------------------------------------|
| <i>Living Rev Rel</i> | (LSC & Virgo) Abbott et al. |
| 21 (2018) 3 | <i>Prospects for observing and localizing gravitational-wave transients ...</i> |
| <i>Astrophys J Lett</i> | (LSC & Virgo) Abbott et al. |
| 851 (2017) L35 | <i>GW170608: Observation of a 19 solar-mass binary black hole coalescence</i> |
| <i>Astrophys J Lett</i> | (LSC & Virgo) Abbott et al. |
| 851 (2017) L16 | <i>Search for post-merger gravitational waves from the remnant of the binary ...</i> |
| <i>Phys Rev Lett</i> | (LSC & Virgo) Abbott et al. |
| 119 (2017) 161101 | <i>GW170817: Observation of gravitational waves from a binary neutron star inspiral</i> |
| <i>Astrophys J Lett</i> | (LSC, Virgo, Fermi, and INTEGRAL collaborations) Abbott et al. |
| 848 (2017) L13 | <i>Gravitational waves and gamma-rays from a binary neutron star merger: GW170817 ...</i> |
| <i>Astrophys J Lett</i> | (LSC, Virgo, Fermi GBM, INTEGRAL and 51 other collaborations) Abbott et al. |
| 848 (2017) L12 | <i>Multi-messenger observations of a binary neutron star merger</i> |
| <i>Nature</i> | (LSC, Virgo, 1M2H, & 6 other collaborations) Abbott et al. |
| 551 (2017) 85 | <i>A gravitational-wave standard siren measurement of the Hubble constant</i> |
| <i>Astrophys J Lett</i> | (LSC & Virgo) Abbott et al. |
| 850 (2017) L40 | <i>On the progenitor of binary neutron star merger GW170817</i> |
| <i>Astrophys J Lett</i> | (LSC & Virgo) Abbott et al. |
| 850 (2017) L39 | <i>Estimating the contribution of dynamical ejecta in the kilonova associated with ...</i> |
| <i>Astrophys J Lett</i> | (LSC, Virgo, Antares, IceCube, & Pierre Auger) Albert et al. |
| 850 (2017) L35 | <i>Search for high-energy neutrinos from binary neutron star merger GW170817 with ...</i> |
| <i>Phys Rev D</i> | (LSC & Virgo) Abbott et al. |
| 96 (2017) 122006 | <i>First narrow-band search for continuous gravitational waves from known pulsars ...</i> |
| <i>Phys Rev Lett</i> | (LSC & Virgo) Abbott et al. |
| 119 (2017) 141101 | <i>GW170814: a three-detector observation of gravitational waves from a binary ...</i> |
| <i>Phys Rev D</i> | (LSC & Virgo) Abbott et al. |
| 96 (2017) 062002 | <i>All-sky search for periodic gravitational waves in O1 LIGO data</i> |
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OTHER PEER-REVIEWED PAPERS (CONTINUED)

<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
96 (2017) 122004	<i>First low-frequency Einstein Home all-sky search for continuous gravitational-waves ...</i>
<i>Astrophys J</i>	(LSC & Virgo) Abbott et al.
847 (2017) 47	<i>Upper limits on gravitational waves from Scorpius X-1 from a model-based ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
118 (2017) 221101	<i>GW170104: observation of a 50-solar-mass binary black hole coalescence at redshift 0.2</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
96 (2017) 022001	<i>Search for intermediate mass black hole binaries in the first observing run of ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
95 (2017) 122003	<i>Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO ...</i>
<i>Phys Rev D</i>	(LSC, Virgo, ANTARES & IceCube) Albert et al.
96 (2017) 022005	<i>Search for high-energy neutrinos from gravitational wave event GW151226 and ...</i>
<i>Astrophys J</i>	(LSC & Virgo) Abbott et al.
839 (2017) 12	<i>First search for gravitational waves from known pulsars with Advanced LIGO</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
118 (2017) 121102	<i>Directional limits on persistent gravitational waves from Advanced LIGO's first ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
118 (2017) 121101	<i>Upper limits on the stochastic gravitational-wave background from Advanced LIGO's ...</i>
<i>Astrophys J</i>	(LSC & Virgo) Abbott et al.
841 (2017) 89	<i>Search for gravitational wave associated with gamma-ray bursts during the first ...</i>
<i>Class Quant Grav</i>	(LSC & Virgo) Abbott et al.
34 (2017) 10	<i>Effects of waveform model systematics on the interpretation of GW150914</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
95 (2017) 042003	<i>All-sky search for short gravitational-wave bursts in the first Advanced LIGO run</i>
<i>Class Quant Grav</i>	(LSC, Harms) Abbott et al.
34 (2017) 4	<i>Exploring the sensitivity of next generation gravitational wave detectors</i>

OTHER PEER-REVIEWED PAPERS (CONTINUED)

<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
95 (2017) 082005	<i>Search for continuous gravitational waves from neutron stars in globular cluster ...</i>
<i>Annalen Phys</i>	(LSC & Virgo) Abbott et al.
529 (2017) 1	<i>The basic physics of the binary black hole merger GW150914</i>
<i>Astrophys J Lett</i>	(LSC & Virgo) Abbott et al.
832 (2016) L21	<i>Upper limits on the rates of binary neutron star and neutron star-black hole ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
94 (2016) 102002	<i>Results of the deepest all-sky survey for continuous gravitational waves on ...</i>
<i>Phys Rev X</i>	(LSC & Virgo) Abbott et al.
6 (2016) 041015	<i>Binary black hole mergers in the first Advanced LIGO observing run</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
116 (2016) 241103	<i>GW151226: Observation of gravitational waves from a 22-solar-mass binary black ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
94 (2016) 064035	<i>Directly comparing GW150914 with numerical solutions of Einstein's equations ...</i>
<i>Phys Rev X</i>	(LSC & Virgo) Abbott et al.
6 (2016) 041014	<i>Improved analysis of GW150914 using a fully spin-precessing waveform model</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
94 (2017) 102001	<i>First targeted search for gravitational-wave bursts from core-collapse ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
94 (2016) 042022	<i>Comprehensive all-sky search for periodic gravitational waves in the sixth ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
93 (2016) 122008	<i>Search for transient gravitational waves in coincidence with short-duration radio ...</i>
<i>Astrophys J Lett</i>	(LSC, Virgo, and EM partners) Abbott et al.
826 (2016) L13	<i>Localization and broadband follow-up of the gravitational-wave transient GW150914</i>
<i>Phys Rev D</i>	(LSC, Virgo, ANTARES & IceCube) Adrián-Martínez et al.
93 (2016) 122010	<i>High-energy neutrino follow-up search of gravitational wave event GW150914 ...</i>

OTHER PEER-REVIEWED PAPERS (CONTINUED)

<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
116 (2016) 131102	<i>GW150914: Implications for the stochastic gravitational-wave background from ...</i>
<i>Astrophys J Lett</i>	(LSC & Virgo) Abbott et al.
818 (2016) L22	<i>Astrophysical implications of the binary black hole merger GW150914</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
116 (2016) 131103	<i>GW150914: the Advanced LIGO detectors in the era of first discoveries</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abbott et al.
116 (2016) 061102	<i>Observation of gravitational waves from a binary black hole merger</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abbott et al.
93 (2016) 042005	<i>All-sky search for long-duration gravitational wave transients with initial LIGO</i>
<i>Phys Rev D</i>	(LSC & Virgo) Aasi et al.
93 (2016) 042007	<i>First low frequency all-sky search for continuous gravitational wave signals</i>
<i>Phys Rev D</i>	(LSC & Virgo) Aasi et al.
93 (2016) 042006	<i>Search of the Orion spur for continuous gravitational waves using a loosely ...</i>
<i>Astrophys J</i>	(LSC & Virgo) Aasi et al.
813 (2015) 39	<i>Searches for continuous gravitational waves from nine young supernova remnants</i>
<i>Class Quant Grav</i>	(LSC) Aasi et al.
32 (2015) 074001	<i>Advanced LIGO</i>
<i>Phys Rev D</i>	(LSC & Virgo) Aasi et al.
91 (2015) 062008	<i>Directed search for gravitational waves from Scorpius X-1 with initial LIGO data</i>
<i>Phys Rev D</i>	(LSC & Virgo) Aasi et al.
91 (2015) 022004	<i>Narrow-band search of continuous gravitational-wave signals from Crab and Vela ...</i>
<i>Class Quant Grav</i>	(LSC & Virgo) Aasi et al.
32 (2015) 115012	<i>Characterization of the LIGO detectors during their sixth science run</i>
<i>Phys Rev D</i>	(LSC & Virgo) Aasi et al.
91 (2015) 022003	<i>Searching for stochastic gravitational waves using data from the two colocated LIGO ...</i>

OTHER PEER-REVIEWED PAPERS (CONTINUED)

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- Phys Rev D* (LSC, Virgo & IceCube) Aartsen et al.
[90 \(2014\) 102002](#) *Multimessenger search for sources of gravitational waves and high-energy neutrinos: ...*
- Phys Rev Lett* (LSC & Virgo) Aasi et al.
[113 \(2014\) 231101](#) *Improved upper limits on the stochastic gravitational-wave background from 2009-2010 ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[90 \(2014\) 062010](#) *First all-sky search for continuous gravitational waves from unknown sources in binary ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[89 \(2014\) 122004](#) *Methods and results of a search for gravitational waves associated with gamma-ray ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[89 \(2014\) 122003](#) *Search for gravitational radiation from intermediate mass black hole binaries in ...*
- Phys Rev Lett* (LSC, Virgo & IPN) Aasi et al.
[113 \(2014\) 011102](#) *Search for gravitational waves associated with γ -ray bursts detected by the ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[89 \(2014\) 102006](#) *Search for gravitational wave ringdowns from perturbed intermediate mass black holes ...*
- Class Quant Grav* (LSC & Virgo) Aasi et al.
[31 \(2014\) 165014](#) *Implementation of an \mathcal{F} -statistic all-sky search for continuous gravitational-waves ...*
- Class Quant Grav* (LSC, Virgo & NINJA) Aasi et al.
[31 \(2014\) 115004](#) *The NINJA-2 project: detecting and characterizing gravitational waveforms ...*
- Class Quant Grav* (LSC & Virgo) Aasi et al.
[31 \(2014\) 085014](#) *Application of a Hough search for continuous gravitational waves on data from ...*
- Phys Rev Lett* (LSC & Virgo) Aasi et al.
[112 \(2014\) 131101](#) *Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors*
- Astrophys J Supp* (LSC & Virgo) Aasi et al.
[211 \(2014\) 7](#) *First searches for optical counterparts to gravitational-wave candidate events*
- Astrophys J* (LSC & Virgo) Aasi et al.
[785 \(2014\) 119](#) *Gravitational waves from known pulsars: results from the initial detector era*
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OTHER PEER-REVIEWED PAPERS (CONTINUED)

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- Phys Rev D* (LSC & Virgo) Aasi et al.
[88 \(2013\) 122004](#) *Search for long-lived gravitational wave transients coincident with long gamma-ray bursts*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[88 \(2013\) 102002](#) *Directed search for continuous gravitational waves from the Galactic center*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[88 \(2013\) 062001](#) *Parameter estimation for compact binary coalescence signals with the first generation ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[87 \(2013\) 022002](#) *Search for gravitational waves from binary black hole inspiral, merger, and ringdown in ...*
- Phys Rev D* (LSC & Virgo) Aasi et al.
[87 \(2013\) 042001](#) *Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data*
- JCAP (LSC, Virgo, & ANTARES) Adrián-Martínez et al.
[1306 \(2013\) 008](#) *A first search for coincident gravitational waves and high energy neutrinos using LIGO, ...*
- Astrophys J* (LSC, Virgo, & others) Abadie et al.
[760 \(2012\) 12](#) *Search for gravitational waves associated with gamma-ray bursts during LIGO Science ...*
- Astrophys J Supp* (LSC, Virgo, & SWIFT) Evans et al.
[203 \(2012\) 28](#) *SWIFT follow-up observations of candidate gravitational-wave transient events*
- Class Quant Grav* (LSC & Virgo) Aasi et al.
[29 \(2012\) 155002](#) *The characterization of Virgo data and its impact on gravitational-wave searches*
- Phys Rev D* (LSC & Virgo) Abadie et al.
[85 \(2012\) 122007](#) *All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run*
- Phys Rev D* (LSC & Virgo) Abadie et al.
[85 \(2012\) 102004](#) *Search for gravitational waves from intermediate mass binary black holes*
- Astrophys J* (LSC) Abadie et al.
[755 \(2012\) 2](#) *Implications for the origin of GRB 051103 from LIGO observations*
- Phys Rev D* (LSC & Virgo) Abadie et al.
[85 \(2012\) 122001](#) *Upper limits on a stochastic gravitational-wave background using LIGO and Virgo at ...*
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OTHER PEER-REVIEWED PAPERS (CONTINUED)

<i>Astron Astrophys</i>	(LSC & Virgo) Abadie et al.
541 (2012) A155	<i>First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abadie et al.
85 (2012) 082002	<i>Search for gravitational waves from low mass compact binary coalescence in LIGO's ...</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abadie et al.
85 (2012) 022001	<i>All-sky search for periodic gravitational waves in the full S5 LIGO data</i>
<i>Astron Astrophys</i>	(LSC & Virgo) Abadie et al.
539 (2012) A124	<i>Implementation and testing of the first prompt search for gravitational wave ...</i>
<i>Phys Rev Lett</i>	(LSC & Virgo) Abadie et al.
107 (2011) 271102	<i>Directional limits on persistent gravitational waves using LIGO S5 science data</i>
<i>Nature Physics</i>	(LSC) Abadie et al.
7 (2011) 962	<i>A gravitational wave observatory operating beyond the quantum shot-noise limit</i>
<i>Astrophys J</i>	(LSC & Virgo) Abadie et al.
737 (2011) 93	<i>Beating the spin-down limit on gravitational wave emission from the Vela pulsar</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abadie et al.
83 (2011) 122005	<i>Search for gravitational waves from binary black hole inspiral, merger, and ringdown</i>
<i>Astrophys J</i>	(LSC, Virgo, & external) Abadie et al.
734 (2011) L35	<i>Search for gravitaitonal wave bursts from six magnetars</i>
<i>Nucl Instrum Meth A</i>	(LSC) Abadie et al.
624 (2010) 223	<i>Calibration of the LIGO gravitational wave detectors in the fifth science run</i>
<i>Astrophys J</i>	(LSC) Abadie et al.
722 (2010) 1504	<i>First search for gravitational waves from the youngest known neutron star</i>
<i>Phys Rev D</i>	(LSC & Virgo) Abadie et al.
82 (2010) 102001	<i>Search for gravitational waves from compact binary coalescence in LIGO and Virgo ...</i>
<i>Class Quant Grav</i>	(LSC & Virgo) Abadie et al.
27 (2010) 173001	<i>Predictions for the rates of compact binary coalescences observable by ground-based ...</i>

NON-PEER-REVIEWED PAPERS

<i>arXiv:gr-qc/1612.05625</i>	G. Ashton, O. Birnholtz, M. Cabero, C. Capano, T. Dent,
2016 December	B. Krishnan, G.D. Meadors , A.B. Nielsen, A. Nitz, J. Westerweck <i>Comments on: "Echoes from the abyss: Evidence for Planck-scale structure at black hole horizons"</i>
<i>LIGO Technical Papers</i>	G.D. Meadors
2016 July	<i>CrossCorr parameter space double-cone</i>
2016 July	<i>First approximation to the TwoSpect metric</i>
2015 December	<i>Eccentricity's effect on TwoSpect parameter estimation</i>
2015 September	<i>Technical appendix, TwoSpect: search for a simulated Scorpius X-1</i>
<i>U of Michigan PhD Thesis</i>	G.D. Meadors (advisor: K. Riles)
2014 November	<i>Directed searches for continuous gravitational waves from spinning neutron stars in binary system</i>
<i>LIGO Technical Paper</i>	I. Bartos, I. Belopolski, J. Berliner, J. Burguet-Castell,
2011 November	R. De Rosa, P. Daveloza, A. Effler, T. Fricke, G. Gonzalez, K. Kawabe, M. Landry, G. Meadors , G. Mendell, J. Rollins, R. Savage, X. Siemens, M. Sung, D. Yeaton-Massey <i>Frequency Domain Calibration Error Budget for LIGO in S6</i>
<i>LIGO Technical Paper</i>	I. Bartos, I. Belopolski, J. Berliner, J. Burguet-Castell,
2010 October	R. De Rosa, P. Daveloza, A. Effler, T. Fricke, G. Gonzalez, K. Kawabe, M. Landry, G. Meadors , G. Mendell, J. Rollins, R. Savage, X. Siemens, M. Sung, D. Yeaton-Massey <i>Calibration for Big Dog [blind injection]</i>

NON-PEER-REVIEWED PAPERS (CONTINUED)

<i>Reed College Senior Thesis</i>	G.D. Meadors (advisor: R. Reynolds)
2008 May	<i>Re-searching galactic structure with Reed's radio telescope</i>
<i>LIGO SURF REU</i>	G.D. Meadors (advisors: V. Mandic, S. Ballmer)
2007 October	<i>Searching for a gravitational wave stochastic background</i>
<i>Columbia U., Nevis Labs REU</i>	G. Meadors (advisors: J. Dodd, R. Galea)
2006 August	<i>E-Bubble: Seeing the Sun's Center</i>
<i>LIGO SURF REU</i>	G.D. Meadors (advisor: D. Gustafson)
2005 September	<i>Study of the LHO 4K Recycling Cavity Sideband and Carrier Response to Excitation and Perturbations</i>

INVITED PRESENTATIONS

<i>LANL ISR & CNLS Seminars</i>	2020 Mar	(inv. talk) Data assimilative optimization of WSA source surface and interface radii using particle filtering
<i>LANL CNLS & XCP Seminars</i>	2019 Sep & Oct	(inv. talk) Discovering hidden signals from gravitational waves and our universe
<i>University of Melbourne</i>	2018 Jun	(inv. talk) Precession measurability in black hole binary coalescences
<i>Albert Einstein Inst, Hannover</i>	2016 Sep	(inv. poster) Searches for signals from binaries and the interesting case of Sco X-1
<i>U Texas, Brownsville – CWGA</i>	2014 Jul	(inv. talk) Star-songs in spacetime: launching into gravitational wave astrophysics
<i>Albert Einstein Inst, Hannover</i>	2014 Mar	(inv. talk) Filters, Lasers, Pulsars: LIGO sensitivity improvements & binary neutron star searches

CONTRIBUTED PRESENTATIONS

<i>ASME V&V Symposium</i>	2020 May	(talk) Data assimilative optimization of WSA source surface and interface radii using particle filtering
<i>American Geophys Union</i>	2019 Dec	(poster) Data assimilative optimization of WSA source surface and interface radii using particle filtering
<i>Australian Inst of Physics</i>	2018 Dec	(talk) Precession measurability in black hole binary coalescences
<i>OzGrav Annual Retreat</i>	2018 Dec	(talk) Bystander anti-harassment training
<i>Astro Soc of Australia</i>	2018 Jun	(talk) Precession measurability in black hole binary coalescences
<i>LIGO Cont Waves</i>	2017 Nov	(telecon) Resampling to accelerate cross-correlation searches. . . from binary systems
<i>Monash University</i>	2017 Mar	(talk) Seeking continuous gravitational waves from Sco X-1
<i>OzGrav</i>	2017 Mar	(talk) CrossCorr, Resampled: algorithms for continuous gravitational waves from Sco X-1 & other low-mass X-ray binaries
<i>LIGO-Virgo Meet, Pasadena</i>	2017 Mar	(talk) Implementation and Measured Scalings of Resampled Cross-Corr
<i>LIGO-Virgo Meet, Glasgow</i>	2016 Aug	(talk) Progress on CrossCorr-Resampling
<i>GWPAW, Hyannis</i>	2016 Jun	(poster) Sco X-1 prospects with cross-correlation resampling
<i>Los Alamos Natl Lab</i>	2016 Mar	(talk) Highlights of the 1 st Advanced LIGO Observations
<i>LIGO-Virgo Meet, Pasadena</i>	2016 Mar	(talk) Prospects for Resampling-CrossCorr
<i>Amaldi 11, Gwangju</i>	2015 Jun	(talk) Directed and all-sky continuous wave searches in advanced detectors: Scorpius X-1 and neutron stars in binary systems
<i>GWPAW, Osaka</i>	2015 Jun	(talk) Scorpius X-1 and other LMXBs: directed and all-sky searches for continuous gravitational waves
<i>LIGO-Virgo Meet, Pasadena</i>	2015 Mar	(talk) Directed TwoSpect: S6 results for Scorpius X-1 & XTE J1751-305
<i>LIGO Hanford</i>	2015 Jan	(talk) Directed TwoSpect: continuous gravitational waves from neutron stars in binary systems

CONTRIBUTED PRESENTATIONS (CONTINUED)

<i>Midwest Rel Meet, Oakland U</i>	2014 Nov	(talk) Sco X-1 in LIGO
<i>LIGO-Virgo Meet, Stanford</i>	2014 Aug	(talk) TwoSpect Directed: S6 search for Scorpius X-1 & J1751
<i>APS April Meet, Savannah</i>	2014 Apr	(talk) Sco X-1 in LIGO: directed searches for continuous gravitational waves from neutron stars in binary systems
<i>LIGO Cont Waves & Det Char</i>	2013 Jun	(telecon) Feedforward AMPS: Auxiliary MICH-PRC Subtraction
<i>APS April Meet, Denver</i>	2013 Apr	(talk) Increasing LIGO sensitivity by feedforward subtraction of auxiliary length control noise
<i>LIGO-Virgo Meet, Bethesda</i>	2013 Mar	(talk & poster) Free Inspiral Range – Auxiliary MICH-PRC Subtraction
<i>LIGO-Virgo Meet, Arcadia</i>	2011 Mar	(talk) Feedforward in S6

OUTREACH & COLLOQUIA

<i>Marshall U – Physics</i>	2011 Apr	(colloq. w Marco Cavaglia) LIGO: illuminating gravity
<i>LIGO Hanford</i>	2011 & 2010	(outreach) LIGO: illuminating gravity
<i>LIGO Hanford</i>	2010 Nov	(video outreach) LaserFest
<i>World Science Festival</i>	2010 Jun	(co-hosting LIGO exhibition, New York City)
<i>Reed Coll & LIGO Livingston</i>	2007 Sep & Aug	(colloq. & REU talk) Beyond Dawn: searching for a Big Bang stochastic background
<i>Reed Coll & Nevis Labs</i>	2006 Sep & Aug	(colloq. & REU talk) E-Bubble: Seeing the Sun's Center
<i>Reed Coll</i>	2005 Dec	(inv. lecture to course) The workings of an interferometric gravitational wave detector
<i>Reed Coll & LIGO Hanford</i>	2005 Sep & Aug	(colloq. & REU talk) Dynamics of the 4-kilometer Recycling Cavity

PROFESSIONAL ORGANIZATIONS

<i>NOGLSTP</i>	Member	joined 2019 December
<i>National Postdoc Association</i>	Member	joined 2019 October
<i>American Geophysical Union</i>	Member	joined 2019 July
<i>LIGO Scientific Collaboration</i>	Member	2008 Aug/2019 Feb
<i>American Physical Society & Institute of Physics</i>	Early Career & Associate Member	joined 2007 Aug

SKILLS

<i>Electronics</i>	Implemented feedforward digital servo control, LabView; made, ran analog, RF circuits
<i>Laboratory</i>	Clean rooms; machined aluminum, copper on mill; used compressed, cryogenic gas
<i>Optics</i>	Interferometry: built Michelson, Fabry-Perot w/ Nd-Yag, operated quantum squeezing
<i>Radioisotopes</i>	Neutron activation analysis w/ prompt, delayed gamma radiation; did lab teaching
<i>Programming</i>	MATLAB, Python, C on Linux; \LaTeX & HTML; some C++, Mathematica, R
<i>Software</i>	Condor data grid; Geant MCMC sim \rightarrow ROOT statistics; AutoCAD, SolidWorks design
<i>Languages</i>	Familiar w/ Russian, 2 years college courses; German working at AEI Hannover
